

Application Serial No. 0756,485
Reply to Office Action of November 4, 2003

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (currently amended) A method for routing testing comprising the following steps of:
connecting a router to be tested to a routing test system;
~~checking~~ selecting a test mode ~~of for~~ the routing test ~~by receiving the test mode by a user;~~
obtaining a virtual network according to the selected test mode by opening recalling a
stored virtual network, opening and ~~or~~ editing the stored virtual network, ~~when the routing test is~~
performed ~~by using a virtual network defined by the user; or generating a new virtual networks-~~
~~recursively~~ network based on respective inputted network constraint information, ~~when the~~
routing test is performed ~~by using a virtual network generated by a virtual network generator~~
~~included in a routing test system;~~
operating a target emulating a routing test protocol of a ~~virtual router and a~~ of the router
under test and virtual routers of the virtual network; and
transmitting a packet having a portion of the virtual network as to a destination address in
the virtual network ~~through~~ via the router under test; ; and
monitoring links of connected to the router under test.
2. (currently amended) The method according to claim 1, wherein the ~~virtual network-~~
~~generator can input information of network constitution and restriction conditions of the~~
~~generated virtual network, and generates the virtual network randomly when~~ network constraint
information comprises at least one of the group consisting of a total number of network nodes, a
total number of ~~whole~~ network links, and a total number of links coupled to the router under test,
~~the information of network constitution, and the restriction conditions are inputted to satisfy the~~
~~inputted information and conditions.~~